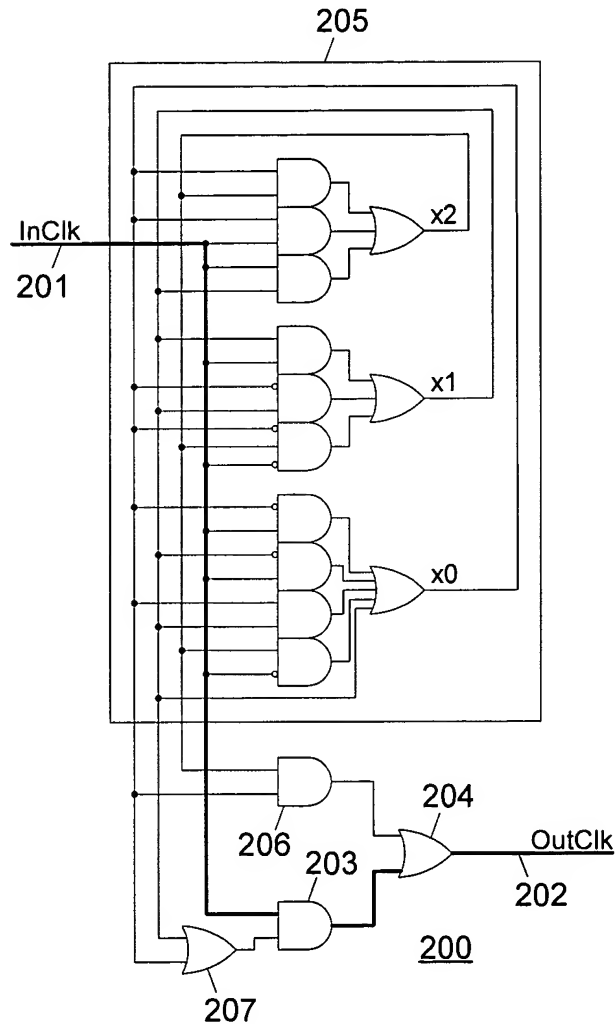
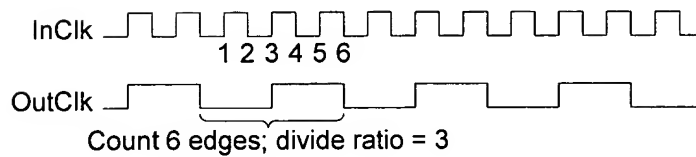


**FIGURE 1**



**FIGURE 2**



**FIGURE 3**

$x_{n-1}, \dots, x_2, x_1, x_0$		C	
		0	1
Gray code 0			
Gray code 1			
Gray code 2			
Gray code 3			
...			
Gray code r			
Gray code r+1			
...			
Gray code $2^n-r-2$			
Gray code $2^n-r-1$			
...			
Gray code $2^n-3$			
Gray code $2^n-2$			
Gray code $2^n-1$			

FIGURE 4A

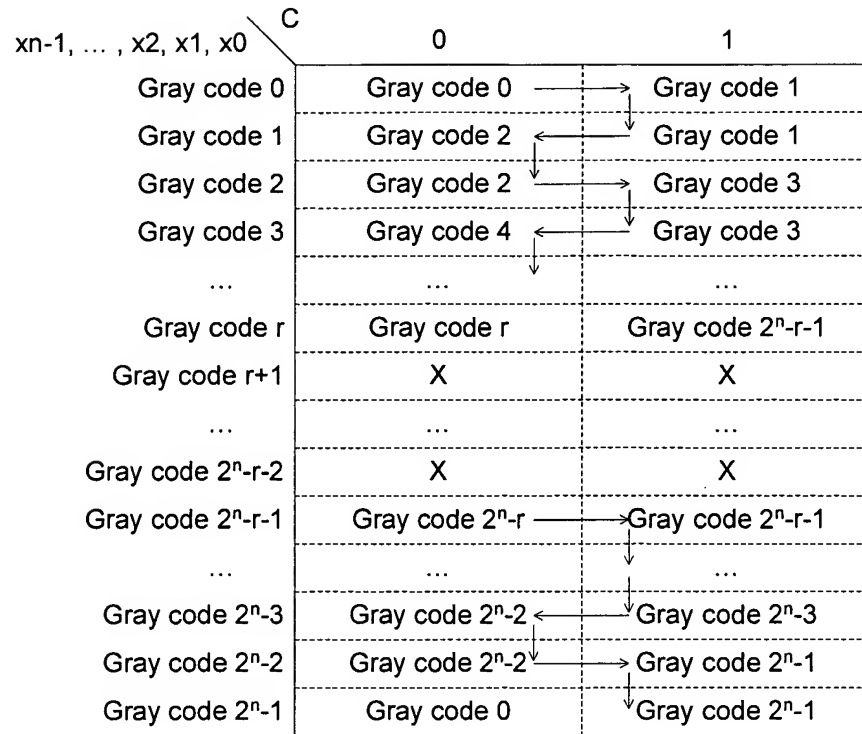


FIGURE 4B

		C	
$x_{n-1}, \dots, x_2, x_1, x_0$		0	1
Gray code 0		Gray code 0	Gray code 1
Gray code 1		Gray code 2	Gray code 1
Gray code 2		Gray code 2	Gray code 3
Gray code 3		Gray code 4	Gray code 3
...		...	...
Gray code r		Gray code r	Gray code $2^{n-r-1}$
Gray code r+1		X	X
...		...	...
Gray code $2^{n-r-2}$		X	X
Gray code $2^{n-r-1}$		Gray code $2^{n-r}$	Gray code $2^{n-r-1}$
...		...	...
Gray code $2^{n-3}$		Gray code $2^{n-2}$	Gray code $2^{n-3}$
Gray code $2^{n-2}$		Gray code $2^{n-2}$	Gray code $2^{n-1}$
Gray code $2^{n-1}$		Gray code 0	Gray code $2^{n-1}$

FIGURE 4C

$x_{n-1}, \dots, x_2, x_1, x_0$ \ S, C	00	01	11	10
Gray code 0	0	0	X	1
Gray code 1	0	0	1	1
Gray code 2	0	0	1	1
Gray code 3	0	0	1	1
...	...	...	...	...
Gray code r	0	0	1	1
Gray code r+1	X	0	X	1
...	...	...	...	...
Gray code $2^n-r-2$	0	0	1	1
Gray code $2^n-r-1$	0	0	1	1
...	...	...	...	...
Gray code $2^n-3$	0	0	1	1
Gray code $2^n-2$	0	0	1	1
Gray code $2^n-1$	1	X	1	1

FIGURE 4D

$x_{n-1}, \dots, x_2, x_1, x_0$	S, C			
	00	01	11	10
Gray code 0	Gray code 0	Gray code 1	X	Gray code 0
Gray code 1	Gray code 2	Gray code 1	Gray code 1	Gray code 0
Gray code 2	Gray code 2	Gray code 3	Gray code 1	Gray code 2
Gray code 3	Gray code 4	Gray code 3	Gray code 3	Gray code 2
...	...	...	...	...
Gray code r	Gray code r	Gray code r+1	Gray code r-1	Gray code r
Gray code r+1	X	Gray code 2 <sup>n-r-2</sup>	X	Gray code r
...	...	...	...	...
Gray code 2 <sup>n-r-2</sup>	Gray code 2 <sup>n-r-1</sup>	Gray code 2 <sup>n-r-2</sup>	Gray code 2 <sup>n-r-2</sup>	Gray code r+1
Gray code 2 <sup>n-r-1</sup>	Gray code 2 <sup>n-r-1</sup>	Gray code 2 <sup>n-r</sup>	Gray code 2 <sup>n-r-2</sup>	Gray code 2 <sup>n-r-1</sup>
...	...	...	...	...
Gray code 2 <sup>n-3</sup>	Gray code 2 <sup>n-3</sup>	Gray code 2 <sup>n-2</sup>	Gray code 2 <sup>n-4</sup>	Gray code 2 <sup>n-3</sup>
Gray code 2 <sup>n-2</sup>	Gray code 2 <sup>n-1</sup>	Gray code 2 <sup>n-2</sup>	Gray code 2 <sup>n-2</sup>	Gray code 2 <sup>n-3</sup>
Gray code 2 <sup>n-1</sup>	Gray code 2 <sup>n-1</sup>	X	Gray code 2 <sup>n-2</sup>	Gray code 2 <sup>n-1</sup>

FIGURE 4E

x2, x1, x0	C	
	0	1
000	000	001
001	011	001
011	011	111
010	X	X
110	X	X
111	101	111
101	101	100
100	000	100

FIGURE 5A

x2, x1, x0	C	
	0	1
000	0	0
001	0	0
011	0	1
010	X	X
110	X	X
111	1	1
101	1	1
100	0	1

x2

FIGURE 5B

x2, x1, x0	C	
	0	1
000	0	0
001	1	0
011	1	1
010	X	X
110	X	X
111	0	1
101	0	0
100	0	0

x1

FIGURE 5C

x2, x1, x0	C	
	0	1
000	0	1
001	1	1
011	1	1
010	X	X
110	X	X
111	1	1
101	1	0
100	0	0

x0

FIGURE 5D

x2, x1, x0	C	
	0	1
000	0	0
001	0	0
011	0	1
010	X	X
110	X	X
111	1	1
101	1	1
100	0	1

OutCik

FIGURE 5E

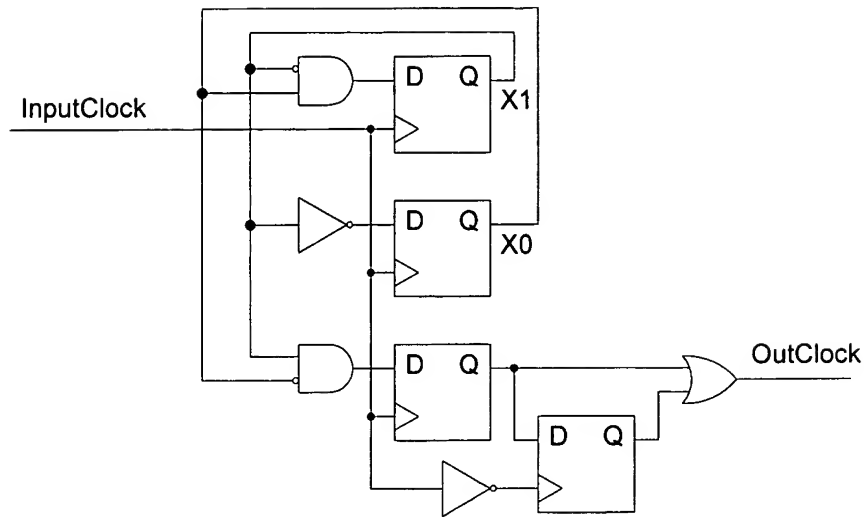


FIGURE 6